



North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

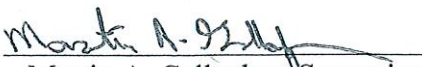
**PERMIT TO OPERATE A SEPTAGE LAND
APPLICATION SITE**

Little Chief Commercial Vacuum Pumping
Eugene Locklear
P.O. Box 717
Maxton, NC 28364

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-78-17** located on SR#1392 in Robeson County at approximate position 34.74481° N latitude and -79.32706° E longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued 6/4/2015


Martin A. Gallagher, Supervisor
Composting & Land Application Branch
Solid Waste Section
Division of Waste Management, NCDENR

CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Eugene Locklear and approved by the Division of Waste Management. **The 19.0 acre site is divided into Field 1 (13 acres) and Field 2 (6 acres).** The fields are established in a permanent cover of coastal Bermuda. The mandatory 30-day waiting period between the last application of septage and the harvest of a crop shall be maintained. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Eugene Locklear in such a manner as to prevent the migration of wastes off of the designated waste receiving site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage and grease septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application. Grease septage or grease septage mixed with domestic septage shall be raised to pH 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 2 hours prior to land application.

7. **This site contains approximately 19.0 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year. At this application rate, a maximum annual volume of 950,000 gallons may be applied to this site. The maximum application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application amounts to the two fields shall not exceed the maximum annual application rate or the monthly application rates as listed in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 18,269 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete.
10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
13. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.

14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
15. **This permit shall expire on June 4, 2020.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838 (e)(1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17 (b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained to meet the minimum setback distances as described in NC Septage Management Rule 15A NCAC 13B .0837(d) such as 500 feet from any existing wells, residences, places of business, or places of public assembly. Also, septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise. There is a 250' setback on field 1 from the well at Eugene Locklear's residence.



North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

June 4, 2015

Donald R. van der Vaart
Secretary

Mr. Eugene Locklear
Little Chief Commercial Vacuum Pumping
P.O. Box 717
Maxton, NC 28364

RE: **SLAS permit renewal**
Little Chief Commercial Vacuum Pumping
SLAS-78-17
SR#1392 in Robeson County

Dear Mr. Locklear:

The NC Division of Waste Management has reviewed your renewal application for a Septage Land Application Site permit in Robeson County. Your application has been approved and your permit, # **SLAS-78-17**, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until **June 4, 2020**. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have **prior approval** from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie S. Wylie, Soil Scientist
Division of Waste Management, NCDENR

Enclosures

cc: files
Robeson County Health Department

h:\cl\septage\slasper\7817cl15p.doc

Fayetteville Regional Office
225 Green Street, Suite 714, Fayetteville, North Carolina 28301-5095
Main Phone: 910-433-3300 \ Internet: www.ncdenr.gov
An Equal Opportunity \ Affirmative Action Employer - Made in part by recycled paper

APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center, Raleigh, NC 27699-1646

I. Site and Operator Information

1. Applicant LITTLE CHIEF COMMERCIAL VACUUM PUMPING
Address P.O. BOX 717
MAXTON N.C. 28364
Phone 910-844-5855

2. Contact person for site operation (if different from applicant):
Title or position _____ Phone _____
Address _____

3. Landowner EUGENE # ~~CHAD~~ LOCKLEAR
Address 219 BUFFALO RD
MAXTON N.C. 28364

4. Site Location: County ROBESON State Road Number 1392
Directions to site: MCCASKILL ST N OUT OF MAXTON CROSS OVER
74 OVERPASS TURN (R) ON BUFFALO RD TO DEAD END AT FARM

5. Indicate whether request is: new _____ renewal ☒ modification _____

For a permit renewal or modification, provide the following information:

Existing site permit number: #78-17 permit expiration date: 6-01-2015

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 17 acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:
(a) None ☒, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). **If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.**

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report.

10. Attach a vicinity map (county road map showing site location).

(over)

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): STORE IN HOLDING TANKS

4. Types of septage proposed to be discharged at the site (check all that apply):

- (a) Domestic septage pumped from septic tanks ☒
- (b) Grease trap pumpings ☒
- (c) Portable toilet waste ☐
- (d) Commercial / Industrial septage ☐

5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): DEHYDRATED LIME IN TRUCK TANK BEFORE SPREADING

ENOUGH HYDRATED LIME IN TANK TO RAISE PH TO 12 OR THEREAFTER, DOMESTIC WILL BE
2 LD FOR AT 12 FOR 1 HR, GREASE IN HOLDING TANK, DEHYDRATED LIME APPLIED BEFORE SPREADING
PHASE WILL BE HELD AT PH 12 FOR 2 HOURS PRIOR TO LAND APPLICATION ALL SEPTAGE PH 12 BEFORE APPLYING
2 FIELD WITH SPREADER OR MOVING PUMP TRUCK

6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): APPLIED FROM MOVING PUMP TRUCK WITH
SPREADER ATTACHED TO OUTLET VALVE

7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law ** or if any part of the site specified is not agricultural land (use additional paper to explain if necessary):

SITE IS AGRICULTURE

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Eugene Locklear

Signature***

4-12-15

Date

EUGENE LOCKLEAR

Print name

PRES

Title

Note: This application will not be reviewed until all parts of the application are complete.

* Refer to Section .0837(e) of the N.C. Septage Management Rules.

** Refer to Section .0837(g) of the N.C. Septage Management Rules.

***Signature of company official required.

Form A: Whole-Farm Nutrient Management Plan Summary

RECEIVED
MAY 29 2015

Producer's name: EUGENE LOCKLEAR

Address: P.O. BOX 717

Telephone: _____

DIVISION OF WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

MAXTON NC 28364

ASCS Tract #: _____

386

Farm location: NE CORNER BYPASS 74
AND S.E. 1312 OLD RED SPRINGS ROAD
NEXT TO LUMBER RIVER
EAST OF MAXTON

HOUSEHOLD

Type of operation: Bermudagrass overseeded with RYE - SEPTAGE APPLICATION

Assessment of Plan for Entire Farm

circle one

- ☐ Is the farm in a critical watershed area?
☐ Have water quality problems been identified in the watershed?
If yes, what are they? _____

yes
yes

no
no

- Does the plan consider these problems?
☐ Are any erosion problems apparent on the farm?
If yes, have the eroded areas been considered usable acres?
☐ For what priority nutrient is the whole-farm plan being written?

yes
yes
yes

no
no
no

N ☒ P₂O₅ _____ Other _____
Varies with field _____

- ☐ Will nutrient sources other than commercial fertilizer be used on the farm?
If no, skip to last item and signature section.
☐ Is enough land available on farm to use all of the primary nutrient that is produced?

yes

no

- If no, have alternate plans been included for the excess nutrients?
☐ Is daily spreading of nutrients necessary?

yes

no

yes

no

yes

no

- ☐ Is land available for daily spreading? WEATHER PERMITTING
☐ Have plans been made to track the potential buildup of nutrients other than the priority nutrient?

yes

no

- ☐ Does this site/farm need additional storage facilities for best use of the nutrients, both agronomically and environmentally?

yes

no

yes

no

If yes, is the submitting party making plans for necessary storage?

- ☐ Based on the facts and representation of the submitting party, will this plan comply with technical requirements for proper nutrient management?

yes

no

Submitted by: Eugene Locklear

Date: 12-08-24

2-26-10

Eugene Locklear

2-26-10

Date

Signature

Eugene Locklear

Signature

5-26-15

Date

**Nutrient Management Plan for Septage Application to Bermuda-grass
Overseeded with Winter Grains (rye)**

Eugene Locklear
P.O. Box 717
Maxton, NC 2836
(910) 844-5855

A. General Information:

1. Periodic sampling of the septage for waste analysis content will occur at least three times a year
2. Field #1 & #2 of the permitted septage application area total 17 acres and are divided roughly into two sections of 11 and 6 acres respectively.
3. The dominant soil series at the site is Kalmia loamy sand.
4. Septage will not be applied where the site is untrafficable. Untrafficable is defined as soil that will allow a loaded truck to leave a depression (ruts) in sod greater than three inches deep.
5. Septage storage shall be provided to account for the average volume of septage pumped per week, or an alternative plan, such as disposal at a waste treatment plant should be in place. At this time an above-ground 10,000 + 8,000 gallon steel storage tank ~~is planned~~
are located at the site.

B. CROPS TO BE GROWN AND PLANTING TIMES:

1. The 17 acres septage application area is located within a larger 34 acre FSA tract of established Bermuda-grass field. The field will be overseeded with a winter grain (annual rye) at two bushels per acre 956 lbs./bu) sometime from September through November following the last haresting of Bermuda-grass leaving 2-4 inches height.
2. Subdivided septage application field #1 and #2 will be cropped the same as likely will be all the buffer areas and the surrounding acres of the 34-acre tract.

Reseed sparse areas of Bermuda

10 lbs seed per acre Feb. March, April May.

E.H.

C. NITROGEN (N) NEEDS FOR CROPS GROWN:

RYE = Realistic Yield Expectations. N application rate based on RYE for soil type. Crops will be grazed with excess forage cut for hay.

<u>Crop</u>	<u>RYE</u>	<u>N appl rate</u>	<u>reduction</u>	<u>lbs. N/acre</u>
Bermuda-grass	5.5 tns/a	55 lbs. N/a	0.75	226
Annual winter grain (rye) - Straight 50 lbs. N for the growing season				

Total N application for both fields: 276 lbs. Nitrogen per year

This far exceeds the amount of N that permitted gallons of septage applied per acre can supply (50,000 gallons septage maximum/acre/year equals 130 lbs. Nitrogen per year)

D. APPLICATION ROTATION/AMOUNTS FOR GRAZING AND CUTTING EXCESS FORAGE FOR HAY:

To be able to have a section (Field #1, #2) of the permitted 17 acres available for septage application each month, the permitted area needs to be divided up into two sections. This is for rotation purposes to allow for the 30 day "no septage application period" before harvesting (grazing or hay). The rotation is: application, idle 30 days, harvest; application, idle 30 days, harvest -- for each of the two fields. This rotation actually works out well with rotational grazing concepts and is good agronomic practice. Possible Rotation Schedule (note any changes):

MONTH	Field #1	Field #2
January	idle/cut/graze	apply
February	apply	idle/cut/graze
March	idle/cut/graze	apply
April	apply	idle/cut/graze
MAY	idle/cut/graze	apply
June	apply	idle/cut/graze
July	idle/cut/graze	apply
August	apply	idle/cut/graze
September	idle/cut/graze	apply
October	apply	idle/cut/graze
November	idle/cut/graze	apply
December	apply	idle/cut/graze

other fields are available for the cattle

The two fields are fenced ~~and fenced~~ so as to allow for animals access to water. There are non-permitted septage application acres in each of these fields. Identification stakes need to mark permitted areas. Available are numerous other acres of pasture for animals that can be worked into a rotation if need to leave permitted fields idle.

Chart showing MAXIMUM application rates possible relative to a MONTH (dependent upon rainfall and soil fertility and crop yields):

<u>Month</u>	<u>Septage Application Amount</u> (gallons/acre & lbs. N/acre)
Jan. 5,000	- winter grain; 13 lbs. N/a
Feb. 10,000	- winter grain; 26 lbs. N/a
Mar. 10,000	- wg/bermuda; 26 lbs. N/a
April 15,000	- bermudagrass; 39 lbs. N/a
May 15,000	- bermudagrass; 39 lbs. N/a
June 15,000	- bermudagrass; 39 lbs. N/a
July 15,000	- bermudagrass; 39 lbs. N/a
Aug 10,000	- bermudagrass; 26 lbs. N/a
Sept 10,000	- bermudagrass; 26 lbs. N/a
Oct 10,000	- bermuda/wg; 26 lbs. N/a
Nov 10,000	- winter grain; 26 lbs. N/a
Dec 5,000	- winter grain; 13 lbs. N/a

Notes:

50,000 gallons septage/acre/year maximum (130 lbs. N/a)

850,000 gallons total for 13 acres, which is short of the 7525 reduced 276 lbs of N/a which can be utilized by the crops.

* Harvesting can be grazing or cutting as hay 30 days following the last septage application.

*Cumulative application rate is not to exceed the permitted application rate.
Annual application rate is not to exceed 50,000 gallons per acre.*

E. APPLICATION METHOD:

Septage will be evenly applied over the entire permitted site during the course of the growing seasons by tank/truck discharge. Use of stakes will mark areas according to last and next applications based upon coverage width. About five feet of overlap is recommended.

F. ADDITIONAL FERTILITY REQUIREMENTS:

1. Nitrogen from septage applications alone will not be enough to maintain good crop yields. Commercial sources can be applied not to exceed the maximum 276 lbs. N/ac/year (130 lbs. N of which could be potentially supplied by septage applications).

2. Phosphorus and potassium must be added in accordance with the soil test results for the crops grown. Phosphorus requirement may be reduced in the permitted site with continued septage applications. Otherwise the entire field including buffer areas and other parts of the field can be treated the same concerning pH (liming), potassium and phosphorus.

3. Buffer areas and the remainder non-permitted areas of the field can be fertilized with up to 276 lbs. N/a/year and according to soil test results.

4. Soil test reports on file at the time of this writing are from the North Carolina Department of Agriculture Report numbers 18461 and 1466 dated November and December of 1997. Lime is only needed on sample field identification number 007, which may not include any of the permitted septage application area. The pH (lime) levels look fine the other sample results. Likewise phosphorus should be added to the # 007 field at about 50 lbs./acre. The other field test results indicate no phosphorus needed. Add 140 lbs./a of potassium (230 lbs./a of muriate of potash, 0-0-60) to all the fields including permitted septage application area and buffer areas. This can be done anytime this spring.

G. HARVEST OF CROPS AND USE.

1. The bermudagrass will be grazed and excess cut and harvested as hay. Harvesting (grazing or cutting) will be about every month alternating septage application sites of Fields # 1, # 2

Amount of forage harvestable (graze or cut) highly depends on temperature, soil fertility and rainfall. *the height of the Bermuda will not exceed 12 inches without being cut or grazed.*

2. The rye will be grazed at least once in the fall and then again in late winter and early spring. If there is excess rye, it will need to be cut

*↳ to allow the
Bermuda to reestablish*

and harvested during the specified months to allow the bermudagrass to greenup.

3. A 30 day waiting period must be observed between the last application of septage and harvest. Refer to the previous chart for rotations allowing this 30 day waiting period.

4. The septage applied forage will be harvested by the landowner/operator's animals and harvested as hay for own use.

Soil Erosion and Runoff Control Plan

Given the at the slopes on this site do not exceed five percent, the 50 feet buffers of the same bermudagrass overseeded with rye will suffice to prevent septage from migrating off the fields.

Submitted by: Eugene Locklear Date: 2-4-05
Site Operator

Eugene Locklear

2-26-10

Cover Locklear
Signature

2-26-10
Date

* Eugene Locklear
Signature

* 5-26-15
Date



34.74481° N latitude
-79.32706° E longitude

